

What is claimed is:

1. An aqueous dispersion, comprising:

(i) an aqueous dispersion of a block copolymer (I) comprising:

at least one polymer block (A) consisting essentially of olefin monomer units; and

at least one polymer block (B) consisting essentially of 2 to 100 mole percent of units derived from at least one vinyl monomer having a carboxyl group or carboxylic anhydride group and 98 to 0 mole percent of units derived from another vinyl monomer or monomers copolymerizable with the carboxyl group- or carboxylic anhydride group-containing vinyl monomer, in an aqueous solution of not less than 0.05 equivalent, relative to the carboxyl or carboxylic anhydride group, of a basic substance, and

ii) a polyurethane (II) incorporated in the aqueous dispersion (I).

2. The aqueous dispersion as claimed in Claim 1, wherein a weight ratio between the solid-matter in the aqueous dispersion (I) and the polyurethane (II) is 10:90 to 90:10.

3. The aqueous dispersion as claimed in Claim 1, wherein the polyurethane (II) comprises a monovalent or divalent aliphatic hydrocarbon group containing 50 to 1,000 carbon atoms.

4. The aqueous dispersion as claimed in Claim 1, wherein the polyurethane (II) is a composite polyurethane obtained by polymerizing a vinyl monomer in the presence of a polyurethane.

5. The aqueous dispersion as claimed in Claim 1, which further comprises a tackifier (IV).

6. The aqueous dispersion as claimed in Claim 5, wherein a weight ratio of the solid matter in the aqueous dispersion (I) to the tackifier (IV) is 99.9:0.1 to 50:50.

7. The aqueous dispersion as claimed in Claim 5, wherein the tackifier (IV) is a hydrogenated petroleum resin.

8. An aqueous dispersion, comprising:

i) an aqueous dispersion of a block copolymer (I) comprising:  
at least one polymer block (A) consisting essentially of olefin monomer units; and  
at least one polymer block (B) consisting essentially of 2 to 100 mole percent of units  
derived from at least one vinyl monomer having a carboxyl group or carboxylic anhydride  
group and 98 to 0 mole percent of units derived from another vinyl monomer or monomers  
copolymerizable with the carboxyl group- or carboxylic anhydride group-containing vinyl  
monomer, in an aqueous solution of not less than 0.05 equivalent, relative to the carboxyl or  
carboxylic anhydride group, of a basic substance, and

ii) an aqueous dispersion or an aqueous solution of a vinyl polymer (III) incorporated  
in the aqueous dispersion (I).

9. The aqueous dispersion as claimed in Claim 8, wherein a weight ratio between the  
solid matter in the aqueous dispersion (I) and the vinyl polymer (III) in the aqueous  
dispersion or aqueous solution (I) is 10:90 to 90:10.

10. The aqueous dispersion as claimed in Claim 8, wherein the vinyl polymer (III)  
comprises at least one resin selected from the group consisting of (meth)acrylic resins,  
styrenic resins and vinyl ester resins.

11. The aqueous dispersion as claimed in Claim 8, which further comprises a tackifier  
(IV).

12. The aqueous dispersion as claimed in Claim 11, wherein a weight ratio of the solid  
matter in the aqueous dispersion (I) to the tackifier (IV) is 99.9:0.1 to 50:50.

13. The aqueous dispersion as claimed in Claim 11, wherein the tackifier (IV) is a  
hydrogenated petroleum resin.

14. An aqueous dispersion, comprising:

i) an aqueous dispersion of a block copolymer (I) comprising:  
at least one polymer block (A) consisting essentially of olefin monomer units; and  
at least one polymer block (B) consisting essentially of 2 to 100 mole percent of units  
derived from at least one vinyl monomer having a carboxyl group or carboxylic anhydride  
group and 98 to 0 mole percent of units derived from another vinyl monomer or monomers

copolymerizable with the carboxyl group- or carboxylic anhydride group-containing vinyl monomer, in an aqueous solution of not less than 0.05 equivalent, relative to the carboxyl or carboxylic anhydride group, of a basic substance, and

ii) a tackifier (IV) incorporated in the aqueous dispersion (I).

5 15. The aqueous dispersion as claimed in Claim 14, wherein a weight ratio of the solid matter in the aqueous dispersion (I) to the tackifier (IV) is 99.9:0.1 to 50:50.

16. The aqueous dispersion as claimed in Claim 14, wherein the tackifier (IV) is a hydrogenated petroleum resin.

10 17. The aqueous dispersion as claimed in Claim 1, which further comprises a curing agent.

~~18. The aqueous dispersion as claimed in Claim 17, wherein the curing agent is an epoxy compound.~~

19. The aqueous dispersion as claimed in Claim 17, wherein the curing agent is present in an amount of 0.2 to 20% by weight based on a total solid matter in the aqueous dispersion.

15 20. The aqueous dispersion as claimed in Claim 1, which further comprises 1 to 200 parts by weight of an olefin polymer per 100 parts by weight of the block copolymer (I).

21. A coating composition, comprising the aqueous dispersion as claimed in Claim 1.

22. A coating composition, comprising the aqueous dispersion as claimed in Claim 5.

20 23. A primer, comprising the aqueous dispersion as claimed in Claim 1.

24. A primer, comprising the aqueous dispersion as claimed in Claim 5.

25. An adhesive composition, comprising the aqueous dispersion as claimed in Claim 1.

25 26. An adhesive composition, comprising the aqueous dispersion as claimed in Claim 5.

27. The aqueous dispersion as claimed in Claim 8, which further comprises a curing agent.
28. The aqueous dispersion as claimed in Claim 27, wherein the curing agent is an epoxy compound.
29. The aqueous dispersion as claimed in Claim 27, wherein the curing agent is present in an amount of 0.2 to 20% by weight based on a total solid matter in the aqueous dispersion.
30. The aqueous dispersion as claimed in Claim 8, which further comprises 1 to 200 parts by weight of an olefin polymer per 100 parts by weight of the block copolymer (I).
31. A coating composition, comprising the aqueous dispersion as claimed in Claim 8.
32. A coating composition, comprising the aqueous dispersion as claimed in Claim 11.
33. A primer, comprising the aqueous dispersion as claimed in Claim 8.
34. A primer, comprising the aqueous dispersion as claimed in Claim 11.
35. An adhesive composition, comprising the aqueous dispersion as claimed in Claim 8.
36. An adhesive composition, comprising the aqueous dispersion as claimed in Claim 11.
37. The aqueous dispersion as claimed in Claim 14, which further comprises a curing agent.
38. The aqueous dispersion as claimed in Claim 37, wherein the curing agent is an epoxy compound.
39. The aqueous dispersion as claimed in Claim 37, wherein the curing agent is present in an amount of 0.2 to 20% by weight based on a total solid matter in the aqueous dispersion.

40. The aqueous dispersion as claimed in Claim 14, which further comprises 1 to 200 parts by weight of an olefin polymer per 100 parts by weight of the block copolymer (I).

41. A coating composition, comprising the aqueous dispersion as claimed in Claim 14.

42. A primer, comprising the aqueous dispersion as claimed in Claim 14.

5 43. An adhesive composition, comprising the aqueous dispersion as claimed in Claim 14.